OCT 2 5 2004

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet | 1 | of | 2

Complete if Known						
Application Number	10/692,671					
Filing Date	October 24, 2003					
First Named Inventor	Tibor Boros					
Art Unit	2683					
Examiner Name	Unknown					
Attorney Docket Number	15685P023DC					

			U.S. PATE	NT DOCUMENTS	· · · · · · · · · · · · · · · · · · ·
Examiner Initials*	Cite No.'	Document Number  Number - Kind Code* (if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ie.		US-3,717,814	02-20-1973	Gans, Michael James	
m/s		US-5,592,490	01-07-1997	Barratt, et al.	
2/		US-5,546,090	08-13-1996	Roy III, et al.	
all		US-5,274,844	12-28-1993	Harrison, et al.	
		US-			
		US-	1		
		US-			
		US-			
		US-			
		·US-			
	- :-	US-	1		,
		US-			·
•		US-	·		
	<u>'</u> .	US-			
		US-			
:		US-			·
		.US-			
		US-			
		US-			
		US-			

		FOF	REIGN PATEN	IT DOCUMENTS		
	Cite	Foreign Patent Document			Pages, Columns, Lines,	-
	No.'	Country Code* - Number* - Kind Code* (if known)	Publication Date MM-0D-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	1.
a4,		EP 0713261 A1	05-22-1996	Hughes Aircraft Company		
14	<u> </u>	WO 98/17037	04-23-1998	ArrayComm, Inc.		_
						_
						_
	•					
	T					_

Examiner Signature	Date Considered 4/15/0	

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST, 16 if possible. 'Applicant is to place a check mark here if English tanguage Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003.



Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

of

2

2

 Complete if Known

 Application Number
 10/692,671

 Filing Date
 October 24, 2003

 First Named Inventor
 Tibor Boros

 Art Unit
 2683

 Examiner Name
 Unknown

 Attorney Docket Number
 15685P023DC

NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-Issue number(s), publisher, city and/or country where published.	T²					
eil		Eurepean Patent Office Search Report, Reference No. EPP85963B, Application No. 03021412.6-2411, 5 pgs.						
		•						
	.:							
	٠							
			+					

Examiner Signature	AS.		Date Considered	11/15/	or	
	I if reference considered, whether or not with next communication.	citation is in conformance with MPE	P 609. Draw line through	h citation if not in con	formance and not consid	tered. Include

<sup>&#</sup>x27;Applicant's unique citation designation number. 'Applicant is to place a check mark here if English language Translation is attached.

Atty. Docket No.: Application No.: **US Department of Commerce** Not yet assigned 015685.P023DC Patent and Trademark Office Applicant: Boros et al. 1099 Filing Date: Form PTO-1449 (Modified) Concurrently Herewith **US Patent Documents** Examiner's **Document** Sub-Initials Date Number Name Class Filing Date Class 10/04/88 4,775,997 West Jr. et al.

U_	 10.0	1,770,777	17 OSC 31. OC A1.	
	01/03/89	4,796,291	Makino	
	05/02/89	4,827,395	Anders et al.	
	05/09/89	4,829,554	Barnes et al.	
	06/06/89	4,837,800	Freeburg et al.	
	08/08/89	4,855,748	Brandao et al.	
	03/20/90	4,910,794	Mahany	
	05/01/90	4,922,517	West, Jr. et al.	
	05/15/90	4,926,186	Kelly et al.	
	07/10/90	4,940,963	Gutman et al.	
	08/07/90	4,947,452	Hattori et al.	-
	09/04/90	4,955,082	Hattori et al.	
(4)	10/23/90	4,965,732	Roy, III et al.	
	10/23/90	4,965,849	Kunihiro	
	10/23/90	4,965,850	Schloemer	
	11/20/90	4,972,151	Rosen	
	01/29/91	4,989,204	Shimizu et al.	
	08/20/91	5,041,833	Weinberg	
	 10/01/91	5,052,799	Sasser et al.	
	03/03/92	5,093,924	Toshiyuki et al.	
	04/07/92	5,103,459	Gilhousen et al.	

5,109,535 Kume et al.

04/28/92

Foreign Fatent Documents								
Examiner's Initials	Date	Document Number	Country	Class	Sub- Class	Translation		
adi	Apr-95	7-170548	Japan		· · ·			
	1/1/98	98/01963	wo					
	Apr-98	98/17071	WO					
	Jul-98	98/28864	WO					
ad	7/1/98	98/33346	WO					
Examiner			Data Considered	/ /				

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw a line through the citation if not in conformance and not considered. Include a copy of this form with the next communication to the applicant

lie n	anartment of	Co	Atty. Docket No.: Application No.			ation No.:
	epartment of ( it and Tradem		015685.P023DC Not yet assigned			
Faten	it and Tradem	ark Office	Applicant:			
)	· of 9		Boros et al.			
			Filing Date:			
Form	PTO-1449 (	Modified)	Concurrently Herewith			
		US Pa	tent Documents			
Examiner's		Document	T	<del></del>	<del></del>	<del>т</del>
Initials	Date	Number	Name		Sub-	.
adi	12/02/97	5,694,416	Johnson	Class	Class	Filing Date
	12/09/97	5,697,066			#==	
	03/10/98	5,726,978	Acampora Frodigh et al.		+	
	03/24/98	5,732,076	Ketseoglou et al.	<del></del>	<del>+</del>	
	04/21/98	5,742,904	Pinder et al.		+	<u> </u>
	04/28/98	5,745,858	Sato et al.		<del> </del>	
	05/05/98	5,748,676	Mahany		+	
	05/12/98	5,752,165	Hokkanen		-	
	06/30/98	5,774,461	Hyden et al.		<del></del>	ļ <u>.</u>
	09/15/98	5,809,009	Matsuoka et al.	<del></del>	<del></del>	
	09/15/98	5,809,019	Ichihara et al.	+==	+	<u> </u>
	10/06/98	5,818,918	Fujii	+-=	<del></del>	
	10/06/98	5,819,182	Gardner et al.	-	<del> </del>	
	10/20/98	5,825,762	Kamin, Jr. et al.	+-	=	
	10/27/98	5,828,658	Ottersten, et al.	-	<del></del>	ļ <del>.</del>
	12/01/98	5,845,212	Tanaka		<del> </del>	<del> </del>
	02/02/99	5,867,123	Geyh et al.	+	<del></del>	
	03/16/99	5,884,148	Bilgic et al.	<del> </del>	<del> </del>	
	03/23/99	5,887,038	Golden	<del> </del>	<del> </del>	<b> </b>
,	05/18/99	5,905,721	Liu et al.	455	560	
ad	02/01/02	6,192,256B1	Whinnett	433	562	
		Foreign P	atent Documents		<u> </u>	
Examiner's		Document			Sub-	
Initials	Date	Number	Country	Class	Class	Translation
ad,	Apr-98	WO98/17037	PCT	H04L	27/22	English
/_	12/14/95	WO95/34103	PCT	H010	3/026	English English
	5/22/96	EP0713261A1	EPO	H01Q	3/026	English English
all	7/30/97	EP0786914A2	EPO	H04Q		English
, 0	ther Docum	ents (Including	Author, Title, Date, Perti			
ad	PCT Search R	eport PCT/11000	/08856, 2/8/99, 5 pps.	nent Page	s, etc.)	
Examiner			Date Considered	7		
Evaminar: Initialis	15	M/1	dor			

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw a line through the citation if not in conformance and not considered. Include a copy of this form with the next communication to the applicant

## **US Department of Commerce** Patent and Trademark Office

of 9 Form PTO-1449 (Modified)

Atty. Docket No.: Application No.: Not yet assigned 015685.P023DC Applicant:

Boros et al.

Filing Date: Concurrently Herewith

## **US Patent Documents**

Examiner's		Document			Sub-	
Initials	Date	Number	Name	Class	Class	Filing Date
ced.	10/23/90	4,965,732	Roy, III et al.	364	460	11/02/87
	12/28/93	5,274,844	Harrison et al.	455	25	05/11/92
	01/04/94	5,276,907	Meidan	455	33.3	03/11/92
	05/07/96	5,515,378	Roy, III et al.	370	95.1	12/12/91
	06/25/96	5,530,449	Wachs et al.	342	174	11/18/94
	08/13/96	5,546,090	Roy, III et al.	342	174.0	04/28/94
	09/03/96	5,553,074	Acampora	342	174.0	04/28/94
	09/10/96	5,555,445	Booth	<del></del>	<del></del>	
	09/17/96	5,557,657	Barnett	<del></del>		
	10/15/96	5,565,873	Dean	<del></del>	<del>  </del>	<u> </u>
	10/15/96	5,566,209	Forssen et al.	<del></del>	<del></del>	
	11/19/96	5,576,717	Searle et al.		<del>-  </del>	
	01/07/97	5,592,490	Barratt et al.	370	310	01/20/05
	01/21/97	5,596,625	LeBlanc	370	310	01/20/95
	02/11/97	5,603,082	Hamabe		<del></del>	
	02/11/97	5,603,089	Searle et al.	<del>                                      </del>	<del></del>	
	02/25/97	5,606,729	D'Amico et al.	<del>                                     </del>	<del>-  </del>	
	03/25/97	5,615,409	Forssen et al.			
	04/15/97	5,621,752	Antonio et al.	<del>                                     </del>		
	04/29/97	5,625,880	Goldburg	<del></del>		
	04/29/97	5,625,885	Nakazawa et al.			
	06/10/97	5,638,375	Dettro et al.		_	<u> </u>
	06/24/97	5,642,353	Roy, III et al.			
	07/15/97	5,649,287	Forssen et al.	<del></del>		
	09/30/97	5,673,291	Dent	<del>-  </del>		
	10/07/97	5,675,581	Soliman			
	10/14/97	5,678,188	Hisamura			
	11/04/97	5,684,836	Nagayasu et al.			
,	11/18/97	5,689,219	Piirainen			
	11/18/97	5,689,502	Scott	<del>                                     </del>		
	06/01/99	5,909,470	Barratt et al.	375	324	10/11/96
	06/22/99	5,914,946	Avidor et al.		327	10/11/90
	07/27/99	5,930,243	Parish et al.	370	334	10/11/96
	02/08/00	6,023,203	Parish et al.		337	10/11/90
	03/14/00	6,037,898	Parish et al.	342	174	10/10/97
130	11/28/00	6,154,661	Goldburg	455	562	12/10/97

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

PCT Search Report, US98/25364, 5/11/99.

Zhang et al., "Performance of a Modified Polling Strategy for Broadband Wireless LANs in a Harsh Fading Environment", 1991, GLOBECOM 1991, pp. 1141-1146.

Date Considered

Examiner

Atty. Docket No.: Application No.: **US Department of Commerce** 015685.P023DC Not yet assigned Patent and Trademark Office Applicant: Boros et al. Pt 9 Filing Date: Form PTO-1449 (Modified) Concurrently Herewith **US Patent Documents** Examiner's Document Sub-Initials Number Date Name Class Class Filing Date 11/28/72 3,704,465 Masak et al. 11/20/73 3,774,209 Fleming et al. 03/19/74 3.798.645 Baurle et al. 12/03/74 3,852,749 Kohler 03/23/76 3,946,385 Ewen 01/25/77 4,005,379 Lerner 07/12/77 4,035,746 Covington Jr. 04/18/78 4,085,319 Deitz et al. 12/05/78 4,128,740 Graziano 04/21/81 4,263,568 Nemit 02/16/82 4,316,191 Sawatari et al. 3/1/83 4,375,622 Hollingsworth et al. 2/28/84 4,434,505 Gutleber 10/2/84 4,475,010 Huensch et al. 12/2/86 4,626,859 Stansfield 01/27/87 4,639,732 Acoraci et al. 01/27/87 4,639,914 Winters 04/14/87 4,658,096 West Jr., et al. 04/12/88 4,737,794 Jones 04/12/88 4,737,975 Shafer 05/03/88 4,742,356 Kuipers 06/07/88 4,750,147 Roy, III et al. Other Documents (Including Author, Title, Date, Pertinent Pages, etc.) Acampora et al., "A New Adaptive MAC Layer Protocol for Wireless ATM Networks in Harsh 1.011 Fading and Interference Environments", 1997 IEEE, pp. 410-415. Agee, "Blind Separation and Capture of Communication Signals Using a Multitarget Constant Modulus Beamformer", 10/7/89 Proc. IEEE Military Communications Conference, Vol. 2, pp. 1-12. Aschied et al., "An All Digital Receiver Architecture for Bandwidth Efficient Transmission at High Data Rates", 1989, IEEE Transactions on Communications, Vol. 37, No. 8, pp. 804-813. Friedlander et al., "Direction Finding for Wideband Signals Using an Interpolated Array", 1991. IEEE Publication, pp. 583-587. Friedlander, "Direction Finding Using an Interpolated Array", 4/3/90, International Conference on ad Acoustics, Speech, and Signal-Processing, Vol. 5, pp. 2951-2954. Examiner Date Considered Examiner: Initial if reference is considered, whether or not citation is in conformance with MP P 609; Draw a line through the

citation if not in conformance and not considered. Include a copy of this form with the next communication to the applicant

	·						
us n	epartment of Co	mmayaa	Atty. Docket No.:		Application No.:		
			015685, P023DC Not yet assigned				
raten	t and Trademai	rk Office	Applicant:				
4	5 of 9		Boros et al.				
	·		Filing Date:				
Form	PTO-1449 (M	Iodified)	Concurrently Herewith				
		US Pate	ent Documents				
Examiner's		Document			Sub-		
Initials	Date	Number	Name	Class	Class	Titles a Total	
ad.	6/23/92	5,124,697	Moore	Class	Class	Filing Date	
64	8/25/92	5,142,253	Mallavarpu et al.				
	10/27/92	5,159,593	D'Amico et al.	<del>                                     </del>			
	10/19/93	5,255,210	Gardner et al.	<del>                                     </del>			
	11/09/93	5,260,968	Gardner et al.	-			
	11/16/93	5,262,789	Silverstein				
	02/01/94	5,283,540	Myer	<del>  -   -  </del>			
	03/29/94	5,299,148	Gardner et al.	<del>                                     </del>			
1,	08/02/94	5,335,249	Krueger et al.			—————	
ad	09/06/94	5,345,596	Buchenhorner et al.	<del>                                     </del>			
2009							
			Author, Title, Date, Pertin				
A	Franks, "Syncr	honization Subsyste	ms: Analysis and Design", 19	981. Digita	l Commu	nications	
al	Satellite/Earth	Station Engineering	, pp. 294-335.	,	- 001111110		
	3		ence Signal Technique for Ad	1. 4. 4			
1 1	Transactions of	n Communications	Vol. 37, No. 9, 9/1989, pp. 97	iaptive Arr	ays", IEE	E	
1 1.	Iltis et al., "A I	Digital DS Spread-Sp	pectrum Receiver with Joint (	Channel an	d Dopple	r Shift	
<del></del>	Estimation", II	EEE Transactions on	Communications, Vol. 39, N	To. 8, 8/199	1. pp. 12	55-1267	
1	Krishnamurthy	et al., "Polling Base	ed Media Access Protocols fo	r Use with	Smart A	laptive Array	
	Antennas" 199	8 IEEE, pp. 337-344					
1 1	Lee et al., "Dec	cision Directed Carr	ier Recovery - Chapter 16: Ca	arrier Reco	verv" 19	94 Digital	
	Communication	ns, 2nd Edition, Klu	wer Academic Pub., pp. 725-	736.		J. B. Igitai	
/	Lee et al., "Dec	ision Directed Carri	ier Recovery - Chapter 17: Ti	ming Pecc	veru" 10	04 Digital	
	Communication	ns, 2nd Edition, Klu	wer Academic Pub., pp. 737-	764.	very , 19	94 Digital	
1 1	Constant Modu	ilus Signals" Procee	edings, 1998 Asilomar Confer	Deamiorin	<del>0 10 00</del>		
_ / `	Computers (AC	SSC-1988), pp. 432	2-436.	rence on Si	ignals, Sy	stems, and	
			obile and Portable Radio Rese	earch Gray	n Costice	20 (4	
	/1.						
	Received at an	Antenna Array", Pro	oc. Fifth Annual IEEE Dual U	Jse Techno	ologies an	d	
	Applications C	onference.				ſ	
	Applications in	Mobile Communica	ations", SPIE 1994 "Advance	d Signal P	rocessing	Algorithms	
as	Architectures, a	and Implementations	V", Vol. 2296, pp. 230-241.		B		
Examiner	0		Date Considered	1	-		
Examiner Initial	iftreference is consi	dered whether as set	estation in the second	$\Delta LO$			

examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw a line through the citation if not in conformance and not considered. Include a copy of this form with the next communication to the applicant

			Atty. Docket No.:		Applica	tion No.:
US Department of Commerce			015685.P023DC Not yet ass			
Pate	nt and Tradema	rk Office	Applicant:			
	, , , ,		Boros et al.			
	6 of 9	Filing Date:				
Form	PTO-1449 (M	Indified)	·I	•		
70111	1110-1445 (1)	iounieu)	Concurrently Herewith			
	·		ent Documents			
Examiner's		Document			Sub-	
Initials	Date	Number	Name	Class	Class	Filing Date
all	11/01/94	5,361,303	Eatwell		1	
	11/22/94	5,367,559	Kay et al.	1	1	
	01/03/95	5,379,320	Fernandes et al.	11-	<del>                                     </del>	
	02/07/95	5,387,915	Moussa et al.	++	<del>                                     </del>	
	06/06/95	5,423,072	Iwashita et al.	<del>                                     </del>	<del>                                     </del>	
	07/04/95	5,430,760	Dent	++	<del>                                     </del>	
	12/12/95	5,475,864	Hamabe		++	
	12/12/95	5,475,868	Duque-Anton et al.	11-	<del>                                     </del>	
	03/05/96	5,497,505	Koohgoli et al.	++	<del>                                     </del>	
	05/07/96	5,515,378	Roy, III et al.		<del>                                     </del>	<del></del>
	06/25/96	5,530,917	Andersson et al.		╁╁╼	
	07/02/96	5,532,706	Reinhardt et al.	<del>     </del>	++	<del> </del>
	06/16/96	5,537,438	Mourot et al.	<del></del>	<del>                                     </del>	<del> </del>
	08/06/96	5,543,801	Shawyer		<del>                                     </del>	
all	08/20/96	5,548,813	Charas et al.	++-	<del>                                     </del>	
	Other Docum		Author, Title, Date, Perti	nent Page	s. etc.)	
-cul	Proceedings II	FF 46th Vehicular	nstant Modulus Algorithm fo Technology Conference, pp	or SDMA S	Systems",	1996,
	Rashid-Farrokl	i et al "Downlink	and Uplink Capacity Enhance	. 86-90.		
	Cellular System	ns", Proceedings, 19	97 IEEE 47th Vehicular Tec	chnology C	ower Con Conference	trolled . Vol. 2. 5/97.
.	Rashid-Farrokl	ni et al., "Downlink l	Power Control and Base Sta	tion Assism	mont!! TE	CC.
	Communication	ns Letters, Vol. 1. N	o. 4, 07/97, pp. 102-104.	mon woolki	ment, ie	C.E.
	Rashid-Farrokh	i et al., "Joint Powe	r Control and Beamforming	for Capaci	tu Immea	omant is
	Wireless Netwo	orks with Antenna A	array", 1996, IEEE GLOBE	COM 1996	Vol 1 n	- 555 550
	Rashid-Farrokh	i et al., "Transmit B	eamforming for Cellular Co	mmunicati	on System	p. 333-339.
	Conference on	Information Science	es and Systems, CISS-97; 3/	1997 Anns	on System	is",
	Rashid-Farrokh	i et al., "Transmit D	oversity and Equalization for	r Power Co	ontrolled V	Vireless
	Networks", Cor	ference Record 31s	t Asilomar Conference on S	ignals. Sys	tems and	Computers
	Vol. 1, 11/97, p	p. 620-624.				compacts,
	Swidlehurst et a	al., "Analysis of a D	ecision Directed Beamform	er" IEEE 1	Crancaction	ng on Signal
	Processing, Vol	. 43, No. 12, 12/95,	pp. 2920-2927.	ا تلاطانية , ١٠٠٠	ransacii0]	is on Signai
1,	Xu et al., "Thro	ughput Multiplication	on of Wireless LANs for M	ultimedia 9	ervices: C	DMA
au	Protocol Design	", 1994, IEEE, pp.	1326-1332.		or Aices: 2	DIMIW
Examiner	0		Date Considered	112	1	
Total IC				11510	. K	

Examiner: Initial if references considered, whether or not citation is in conformance with MPEP 609; Draw a line through the citation if not in conformance and not considered. Include a copy of this form with the next communication to the applicant

	<del></del>		Atty. Docket No.:		7	Applica	tion No.:	
US I	Department of Co	015685.P023DC Not yet assigned						
Pate	nt and Trademar	Applicant:						
			Boros et al.					
	7 of 9	Filing Date:						
. Forn	1 PTO-1449 (M	(odified)	Concurrently Herewith					
US Patent Documents								
Examiner's		Document				Sub-		
Initials	Date	Number	Name	Clas	ss	Class	Filing Date	
aut	08/08/95	5,440,281	Wey et al.		П	1	-	
	09/05/95	5,448,621	Knudsen			1		
7	10/10/95	5,457,812	Siira et al.					
	11/07/95	5,465,399	Oberholtzer et al.					
	11/28/95	5,471,647	Gerlach et al.					
ad	09/22/98	5,812,090	Chevalier et al.					
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)  Papadias et al., "A Space-Time Constant Modulus Algorithm for SDMA Systems", 1996, Proceedings, IEEE 46th Vehicular Technology Conference, pp. 86-90.								
	Cellular Systems", Proceedings, 1997 IEEE 47th Vehicular Technology Conference, Vol. 2, 5/97, pp. 647-651.							
. ]	Rashid-Farrokhi et al., "Downlink Power Control and Base Station Assignment", IEEE Communications Letters, Vol. 1, No. 4, 07/97, pp. 102-104.							
/ /	Rashid-Farrokhi et al., "Joint Power Control and Beamforming for Capacity Improvemen							
	in Wireless Networks with Antenna Array", 1996, IEEE GLOBECOM 1996, Vol. 1, pp.						Vol. 1, pp.	
	Rashid-Farrokhi et al., "Transmit Beamforming for Cellular Communication Systems", Conference on Information Sciences and Systems, CISS-97; 3/1997, 4 pps.							
	Rashid-Farrokhi et al., "Transmit Diversity and Equalization for Power Controlled Wireless Networks", Conference Record 31st Asilomar Conference on Signals, Systems, and Computers, Vol. 1, 11/97, pp. 620-624.							
	Swidlehurst et al., "Analysis of a Decision Directed Beamformer", IEEE Transactions on Signal Processing, Vol. 43, No. 12, 12/95, pp. 2920-2927.							
	Antenna Array	y", 1993, Proc. 27t	of Multiple Co-Channel h Asilomar Conference	on Signa	ls, S	Systems,	and	
od		gn", 1994, IEEE, p	ration of Wireless LANs	tor Muli	ume	oua Serv	ices: SDMA	
Examiner	10)			1,-1			<u></u>	

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw a line through the citation if not in conformance and not considered. Include a copy of this form with the next communication to the applicant

7: 7:			Atty. Docket No.:	Application No.:				
	epartment of Co It and Trademai		O15685, PO23DC Not yet assigned  Applicant: Boros et al.  Filing Date:					
Tacci		N Office						
	8 of d							
Form	PTO-1449 (M	Iodified)	Concurrently Herewith					
		Foreign P	atent Documents					
Initials	Date	Number	Country	Class	Class	Translation		
1/1	May-91	2 237 706 A	UK					
7	2/15/95	0 639 035 A1	EPO					
	5/1/96	2 295 524 A	UK					
7	6/4/97	0 777 400 A2	EPO					
	1/13/95	0 665 665 A1	EPO					
20/	11/1/97	2 313 261 A	UK	7	11			
3_22	Other Docum	nents (Including	Author, Title, Date, Per	tinent Pag	es, etc.)			
, ,	PCT Search	Report, PCT/US99	9/08856, 2/8/99, 5 pps.			· · · · · · · · · · · · · · · · · · ·		
aminer	///		Date Considered 11/15/nv					

Substitute for form 1449A/PTO INFORMATION DISCLOSURE					Complete if Known		
				) E	Application Number	Not yet Assigned	
INFORMATION DISCLOSURE					Filing Date		
STATEMENT BY APPLICANT (use as many sheets as necessary)					First Named Inventor	Tibor Boros	
					Art Unit	2686	
			-		Examiner Name	MOORE, JAMES K.	
Sheet	9	of	9		Attorney Docket Number	15685P023DC	

U.S. PATENT DOCUMENTS							
		Document Number	Publication Date	Name of Balantes or Pages, Columns, Lines, Wh			
Examiner Initiats*	Cite No.1	Number - Kind Code <sup>†</sup> (if known)	or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear		
054		US-6,134,261	10-17-2000	Ryan			
7		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					

FOREIGN PATENT DOCUMENTS								
Examiner Cite	Cite	Foreign Patent Document			Pages, Columns, Lines,			
Initiats* No.1		Country Code* - Number* - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear			
						丄		
	ļ					↓		
						<del> </del>		
						▙		
						╄		
	-				<del>-  </del>	├		
			· · · · · · · · · · · · · · · · · · ·		<del></del>	├-		
	ļ					┼		
	ı					1		

Examiner	Date	/ /
Signature	Considered	11/15/05

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication.

'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003.